#### Monitoring Data Record

Project Title: R-2417BB (Site 6) COE Action ID: 200201326
Stream Name:DWQ Numbers: 3378
City, County and other Location Information: Lee County, Sanford Bypass (Sta. 540+20 to
555+00 –L- RT.)
Date Construction Completed: Water was turned into the stream in Oct. 2006. Streambank
reforestation was completed in Jan. 2007.
Monitoring Quarter: (7) of 8
Ecoregion: 8 digit HUC unit: <u>03030004</u>
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 1,734' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: J. Young Date: 11/17/08
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete
Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level  Monitoring Level 1 requires completion of Section 1, Section 2 and Section 3
<b>Permit States:</b> The permittee will visually monitor the vegetative plantings on all mitigation streambanks to access and insure complete stabilization of the mitigation stream segments. This monitoring will include adequate visual monitoring of planted vegetation quarterly for a minimum of two years after final planting, and appropriate remedial actions (e.g., replanting, streambank grading, ect.). If within any monitoring year, bank stabilization is not acceptable as determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is performed, the two year monitoring of the affected portions of the stream will begin again.
Section 1. PHOTO REFERENCE SITES
Total number of reference photo locations at this site: 9 photo point locations – 2 photos
taken from each location
Dates reference photos have been taken at this site: 5/21/07, 8/7/07, 11/2/07, 2/1/08,
5/13/08, 8/8/08, 11/17/08
Individual from whom additional photos can be obtained (name, address, phone):
Other Information relative to site photo reference:

	2. <u>PLANT SURVIVAL</u> plan sheet indicating reference p	photos.
Identif	ly specific problem areas (mi	issing, stressed, damaged or dead plantings):
Estima	ated causes, and proposed/red	quired remedial action:
ADDI	TIONAL COMMENTS:	Planted live stakes and bareroot seedlings noted on the streambank an
in the fl	loodplain consisted of black willo	ow, silky dogwood, river birch, black cherry, water oak, and willow oal ed were <i>Juncus</i> sp., sedge, woolgrass, fennel, goldenrod, pine, pokeberr
		gum, tulip poplar, sycamore, red maple, and cattail.

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

#### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the 7th quarterly monitoring evaluation for this stream relocation. The crossvane @ Sta. 546+75 (PP #6 Upstream) that required remedial action prior to the 4<sup>th</sup> Quarter evaluation is functioning properly at this time. The stream relocation is highly stable. NCDOT will continue to monitor this stream relocation.

Date Station Station Station Station Station Number Number Number Number Number Structure Type Is water piping through or around structure? Head cut or down cut present? Bank or scour erosion present? Other problems noted?

# Site 6



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

7th Quarter – November 2008

### Site 6



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

# Site 6



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)

